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Claim listing

1.   (original)   Apparatus for dynamically transforming and
caching at least one computer program, the apparatus
comprising:

5   a.   one or more computer readable storage media;
      and
            b.   computer executable instructions stored in the
      one or more computer readable storage media, the computer
      executable instructions comprising:

10   i.   instructions for dynamically transforming
            code fragments;
                  ii.   instructions for caching said code
            fragments;
                  iii.   instructions for causing said code

15   fragments to be executed by at least one computer
            processor; and
                  iv.   instructions providing an application
            programming interface enabling said at least one
            computer program to activate said instructions for

20   dynamically transforming said code fragments and
            said instructions for caching said code fragments.

2.   (original)   The apparatus of claim 1, wherein said
instructions providing an application programming interface
enable said at least one computer program to provide said code

25   fragments for said instructions for dynamically transforming
code fragments and for said instructions for caching said code
fragments.

3.   (original)   The apparatus of claim 1, wherein said
instructions providing an application programming interface

30   include providing functions for caching and executing a

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specified code fragment.

4.   (original) The apparatus of claim 1, wherein said
instructions providing an application programming interface
include providing functions for configuring behavior of said
5   instructions for dynamically transforming said code fragments
and said instructions for caching said code fragments.

5.   (original) The apparatus of claim 1, wherein said
instructions for dynamically transforming said code fragments
comprise instructions for changing memory address references
10   in said code fragments.

6.   (original) The apparatus of claim 1, wherein said
instructions for dynamically transforming said code fragments
comprise instructions for changing the layout of said code
fragments while preserving the function of said code
15   fragments.

7.   (original) The apparatus of claim 1, wherein said
instructions providing an application programming interface
include instructions for accessing code fragments across a
network.

20   8.   (original) The apparatus of claim 1, wherein said at
least one computer program comprises at least one emulator.

9.   (currently amended) The apparatus of claim 1, wherein
said at least one computer program comprises a plurality of
emulators being executed simultaneously.

25   10.   (original) The apparatus of claim 9, wherein said
plurality of emulators comprise emulators for at least two

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different computer architectures.

11. (original) The apparatus of claim 1, wherein said at least one computer program comprises at least one operating system.

5   12. (original) The apparatus of claim 1, said computer executable instructions further comprising instructions for transparently obtaining said code fragments from said at least one computer program for said instructions for dynamically transforming said code fragments and for said instructions for
10   caching said code fragments.

13. (original) The apparatus of claim 12, said computer executable instructions further comprising instructions for controlling the execution of said at least one computer program on said at least one computer processor.

15   14. (original) The apparatus of claim 12, said computer executable instructions further comprising instructions for obtaining optimal portions of code from said at least one computer program to create said code fragments.

15. (original) The apparatus of claim 12, wherein said
20   instructions for transparently obtaining said code fragments from said at least one computer program obtain said code fragments across a network.

16. (original) The apparatus of claim 1, said computer executable instructions further comprising instructions for
25   optimizing said code fragments.

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17.   (original) The apparatus of claim 1, said computer
executable instructions further comprising instructions for
linking a plurality of said code fragments to create a larger
code fragment.

5   18.   (currently amended) The apparatus of claim 1, said
computer executable instructions further comprising
instructions for replacing hardware control code in said code
fragments, where said hardware control code is adapted to
control hardware which is not present and hardware which is
10   not functioning.

19.   (original) Apparatus for dynamically transforming and
caching at least one computer program, the apparatus
comprising:
          a.   one or more computer readable storage media;
15   and
          b.   computer executable instructions stored in the
one or more computer readable storage media, the computer
executable instructions comprising:
          i.   instructions for dynamically transforming
20   code fragments;
          ii.   instructions for dynamically optimizing
said code fragments;
          iii. instructions for caching said code
fragments;
25   iv.   instructions for changing hardware control
code in said code fragments;
          v.   instructions for transparently obtaining
said code fragments from said at least one computer
program;
30   vi.   instructions providing an application
programming interface enabling said at least one

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    computer program to activate said instructions for
    dynamically transforming and caching said code
    fragments; and
        vii. instructions for causing said code
5   fragments to be executed by at least one computer
    processor.

20.   (currently amended)   Apparatus for executing a plurality
of software applications, the apparatus comprising:
        a.   one or more computer readable storage media;
10   and
        b.   computer executable instructions stored in the
    one or more computer readable storage media, the computer
    executable instructions comprising:
        i.   instructions for obtaining portions of
15   computer program code from said plurality of
    software applications, said plurality of software
    applications comprising emulators;
        ii.   instructions for dynamically transforming
    and caching said portions of computer program code
20   to create transformed code fragments; and
        iii. instructions for executing said
    transformed code fragments, wherein a single
    instantiation of said computer executable
    instructions causes said executing of said
25   transformed code fragments from said plurality of
    software applications simultaneously.

21.   (cancelled)

22.   (original)   The apparatus of claim 21, wherein said
plurality of software applications emulate computer systems
30   with at least two different instruction set architectures.

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23.   (new)   The apparatus of claim 9, wherein said plurality
of emulators are executed simultaneously on said at least one
computer processor using a single instantiation of said
instructions for dynamically transforming code fragments.

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